(b) Amendments to the Claims

Please amend claims 44, 53 and 54 and add new claims 55-62 as follows. A detailed listing of all the claims that are or were in the application is hereafter provided.

Claims 1 - 43 (Cancelled)

44. (Currently Amended) A structure comprising:
a first portion containing a polyimide; and
a second portion formed on the first portion,

wherein the second portion has tubular pores, the tubular pores are aligned uniaxially and extend alongside a boundary surface between the first portion and the second portion, the polyimide has a sequence of two or more adjacent methylene groups in a repeating unit of the polyimide, the sequence of adjacent methylene groups in the repeating unit is present in a main chain of the polyimide, and the polyimide chains are is oriented, wherein the tubular pores are oriented to be perpendicular to an in-plane rotation angle of 0° for the oriented polyimide, said tubular pores having a Gaussian profile with a half-width aligned with a normal distribution, full width at a half maximum of the normal distribution of orientation of direction of being about 35° or less.

45. (Previously Presented) The structure according to claim 44, wherein the first portion is comprised of a Langmuir-Blodgett film.

	46.	(Previously Presented)	The structure according to claim	44, wherein
the second po	ortion cor	ntains silicon.		

- 47. (Previously Presented) The structure according to claim 44, wherein the structure contains silica.
- 48. (Previously Presented) The structure according to claim 44, wherein the number of adjacent methylene groups in the repeating unit of the polyimide ranges from 2 to 20.
 - 49. (Cancelled)
 - 50. (Cancelled)
- 51. (Previously Presented) The structure according to claim 44, wherein a surfactant is contained in the pore structure.
- 52. (Previously Presented) The structure according to claim 54, wherein the pores are mesopores.
 - 53. (Currently Amended) A structure comprising:
 - a first portion containing a polyimide; and
 - a second portion formed on the first portion,

wherein the second portion has tubular pores, the tubular pores are aligned uniaxially and extend alongside a boundary surface between the first portion and the second portion, the polyimide has a sequence of two or more adjacent methylene groups in a repeating unit of the polyimide, the sequence of adjacent methylene groups in the repeating unit is present in a side chain of the polyimide, and the polyimide chains are is oriented, wherein the tubular pores are aligned with a normal distribution, full width at a half maximum of the normal distribution being oriented to be perpendicular to an in-plane rotation angle of 0° for the oriented polyimide, said tubular pores having a Gaussian profile with a half-width distribution of orientation of direction of about 35° or less.

- 54. (Currently Amended) A structure comprising:
 - a first portion containing a polymer; and
 - a second portion formed on the first portion,

wherein the second portion has tubular pores, the tubular pores are aligned uniaxially and extend alongside a boundary surface between the first portion and the second portion, the polymer has a sequence of two or more adjacent methylene groups and at least one imide bond in a repeating unit of the polymer and the polymer chains are is oriented, wherein the tubular pores are aligned with a normal distribution, full width at a half maximum of the normal distribution being oriented to be perpendicular to an in-plane rotation angle of 0° for the oriented polymer, said tubular pores having a Gaussian profile with a half-width distribution of orientation of direction of about 35° or less.

- 55. (New) A structure according to claim 44, wherein the tubular pores are aligned perpendicularly to the orientation direction of the polyimide chains.
- 56. (New) A structure according to claim 54, wherein the tubular pores are aligned perpendicularly to the orientation direction of the polymer chains.
- 57. (New) The structure according to claim 54, wherein the first portion is comprised of a Langmuir-Blodgett film.
- 58. (New) The structure according to claim 54, wherein the second portion contains silicon.
- 59. (New) The structure according to claim 54, wherein the structure contains silica.
- 60. (New) The structure according to claim 54, wherein the number of adjacent methylene groups in the repeating unit of the polyimide ranges from 2 to 20.
- 61. (New) The structure according to claim 54, wherein a surfactant is contained in the pore structure.
- 62. (New) The structure according to claim 54, wherein the pores are mesopores.